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### 1 [A survey of RST invariant image watermarking algorithms](#)



Dong Zheng, Yan Liu, Jiying Zhao, Abdulmoteleb El Saddik

July 2007 ACM Computing Surveys (CSUR), Volume 39 Issue 2

Publisher: ACM

 Full text available: [pdf\(5.53 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 76, Downloads (12 Months): 1036, Citation Count: 0

In this article, we review the algorithms for rotation, scaling and translation (RST) invariant image watermarking. There are mainly two categories of RST invariant image watermarking algorithms: rectify the RST transformed image before conducting ...

Keywords: Digital image watermarking, Fourier-Mellin transform, ILPM, LPM, RST invariant, Ra transform, feature points, moments, template matching

### 2 [Resolution and quality scalable spread spectrum image watermarking](#)



Angela Piper, Reihaneh Safavi-Naini, Alfred Mertins

August 2005 MM&amp;Sec '05: Proceedings of the 7th workshop on Multimedia and security

Publisher: ACM

 Full text available: [pdf\(238.35 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 87, Citation Count: 0

If digital watermarking is to adequately protect content in systems which provide both resolution and quality scalability, then the watermarking algorithms used must provide both resolution and quality scalability. Although there exists a tradeoff between ...

Keywords: digital watermarking, scalable, texture analysis

### 3 [Video watermark detection with controllable performance with and without knowledge of watermark location](#)



Maneli Noorkami, Russell M. Mersereau

September 2007 MM&amp;Sec '07: Proceedings of the 9th workshop on Multimedia &amp; security

Publisher: ACM

 Full text available: [pdf\(310.78 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 70, Citation Count: 0

In this paper, we build a theoretical framework for video watermark detection based on a likelihood test. This framework is used to develop two different video watermark detection algorithms; one

the watermark only from watermarked coefficients ...


Keyw ords: H.264, controllable performance, likelihood ratio test, video watermark detection, v watermarking

#### 4 Robust mesh watermarking

Emil Praun, Hugues Hoppe, Adam Finkelstein

July 1999 SIGGRAPH '99: Proceedings of the 26th annual conference on Computer graphics and techniques

Publisher: ACM Press/Addison-Wesley Publishing Co.

Full text available:  pdf(2.08 MB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 108, Citation Count: 15

Keyw ords: copyright protection, steganography


#### 5 Protecting digital media content



Nasir Memon, Ping Wah Wong

July 1998 Communications of the ACM, Volume 41 Issue 7

Publisher: ACM

Full text available:  pdf(1.02 MB)

Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 138, Citation Count: 13

#### 6 Tamper proofing and attack identification of corrupted image by using semi-fragile multiple-watermarking algorithm



Soo-Chang Pei, Yi-Chong Zeng

March 2006 ASI ACCS '06: Proceedings of the 2006 ACM Symposium on Information, computer and communications security

Publisher: ACM

Full text available:  pdf(622.66 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 138, Citation Count: 0

We propose a novel semi-fragile multiple-watermarking algorithm based on quantization index r. This algorithm utilizes two quantization steps to yield the non-uniform intervals in the real-numt. Each interval corresponds to one binary ...

Keyw ords: attack identification, multiple-watermark, semi-fragile watermarking, tamper proofi cryptography

#### 7 Content-adaptive digital music watermarking based on music structure analysis



Changsheng Xu, Namunu C. Maddage, Xi Shao, Qi Tian

February 2007 ACM Transactions on Multimedia Computing, Communications, and Applicati (TOMCCAP), Volume 3 Issue 1

Publisher: ACM

Full text available:  pdf(583.99 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 217, Citation Count: 0

A novel content-adaptive music watermarking technique is proposed in this article. To optimally inaudibility and robustness when embedding and extracting watermarks, the embedding schem

related to the music structure and human auditory ...

Key words: Content-adaptive, digital watermarking, inaudibility, music structure, note-based segmentation, robustness

#### 8 [Algorithms and applications for answering ranked queries using ranked views](#)

Vagelis Hristidis, Yannis Papakonstantinou

January 2004 The VLDB Journal — The International Journal on Very Large Data Bases, Vol. 13  
Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(478.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 33, Citation Count: 6

Ranked queries return the top objects of a database according to a preference function. We present and evaluate (experimentally and theoretically) a core algorithm that answers ranked queries in an efficient pipelined manner using materialized ranked views.

Key words: Materialization, Merge ranked views, Ranked queries


#### 9 [A new pixel-wise mask for watermarking](#)



Corina Nafoarnita

September 2007 MM&Sec '07: Proceedings of the 9th workshop on Multimedia & security

Publisher: ACM

Full text available:  [pdf\(2.66 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 72, Citation Count: 0

Robust watermarking using pixel-wise masking in the wavelet domain proves to be quite robust against common signal processing. However, because embedding is made only in the highest resolution subbands, watermark information can be easily erased by ...

Key words: pixel-wise mask, robust watermark, wavelets


#### 10 [Dual watermarking for protection of rightful ownership and secure image authentication](#)



Mathias Schlauweg, Dima Pröfrock, Benedikt Zeibich, Erika Müller

October 2006 MCPS '06: Proceedings of the 4th ACM international workshop on Contents protection and security

Publisher: ACM

Full text available:  [pdf\(1.33 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 173, Citation Count: 0

A digital watermarking approach highly robust to lossy image compression is presented. It is shown that geometrically warping objects can be used to imperceptibly embed information into images for the purpose of property rights protection. Common lossy image compression techniques ...

Key words: JPEG2000, authentication, dual watermarking, error correction coding (ECC), normal gravity (NCG)

#### 11 [The digital watermarking container: secure and efficient embedding](#)



Martin Steinebach, Sascha Zmudzinski, Fan Chen

September 2004 MM&Sec '04: Proceedings of the 2004 workshop on Multimedia and security

Publisher: ACM

Full text available:  [pdf\(357.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 93, Citation Count: 1

While acceptance of digital watermarking as a technology to protect digital media is constantly integrated applications are still comparatively rare. Two reasons are the challenge of secure key due to the symmetric nature of digital ...

Keywords: complexity, container, optimization, security, watermarking

## 12 [ICA for watermarking digital images](#)

Stéphane Bounkong, Borémi Toch, David Saad, David Lowe

December 2003 The Journal of Machine Learning Research, Volume 4

Publisher: MIT Press


Full text available:  [pdf\(554.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index te](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 90, Citation Count: 1

We present a domain-independent ICA-based approach to watermarking. This approach can be images, music or video to embed either a robust or fragile watermark. In the case of robust water the method shows high information rate and robustness ...

## 13 [Key-dependency for a wavelet-based blind watermarking algorithm](#)

 Michael Brachtel, Andreas Uhl, Werner Dietl

September 2004 MM&Sec '04: Proceedings of the 2004 workshop on Multimedia and security

Publisher: ACM

Full text available:  [pdf\(355.15 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 56, Citation Count: 0

When a host image is watermarked multiple times by the same algorithm collisions can occur. T it difficult for an image to host multiple watermarks. But this hosting is necessary for an image chain, where several persons all watermark ...

Keywords: blind watermarking, multiple watermarking, parameterized wavelet filters, wavelet

## 14 [Statistical audio watermarking algorithm based on perceptual analysis](#)

 Xiaomei Quan, Hongbin Zhang

November 2005 DRM '05: Proceedings of the 5th ACM workshop on Digital rights management

Publisher: ACM

Full text available:  [pdf\(261.76 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 73, Citation Count: 0

In this paper, we describe a novel statistical audio watermarking scheme. Under the control of thresholds, watermark is embedded adaptively and transparently in the perceptual significant wavelet packet domain by a statistical ...


Keywords: audio watermarking, psychoacoustic model, wavelet packet decomposition

## 15 [An image watermarking technique using pyramid transform](#)

 Qiang Cheng, Thomas S. Huang

October 2001 MULTIMEDIA '01: Proceedings of the ninth ACM international conference on Multimedia

Publisher: ACM

Full text available:  [pdf\(1.90 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index te](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 84, Citation Count: 2

An image watermarking technique based on pyramid transforms is proposed. An arbitrary binary formed into an effective hypothesized pattern and transmitted as a watermark. Multiresolution p transforms are applied to host images, whose ...

Keyw ords: pyramid transfrom, verification coding, watermarking

## 16 Communications of the ACM: Volume 51 Issue 2



February 2008 issue Volume 51 Issue 2

Publisher: ACM

Full text available: pdf(3.89 MB) digital edition(.00 bytes) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 385, Downloads (12 Months): 645, Citation Count: 0

## 17 Scale-invariant image watermarking via optimization algorithms for quantizing randomized



Tie Liu, Ramarathnam Venkatesan, M. Kivanç Mihçak

September 2004 MM&Sec '04: Proceedings of the 2004 workshop on Multimedia and security

Publisher: ACM

Full text available: pdf(283.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 55, Citation Count: 0

We introduce a novel approach for blind and semi-blind watermarking and apply it to images. W randomized robust semi-global features of images in a suitable transform domain (wavelets in c images) and quantize them in order to embed the ...

Keyw ords: cryptanalysis, mark embedding, optimization, quantization, randomized statistics, s verification, watermarking

## 18 The effects of invisible watermarking on satellite image classification



Gregory L. Heileman, Yunlong Yang

October 2003 DRM '03: Proceedings of the 3rd ACM workshop on Digital rights management

Publisher: ACM

Full text available: pdf(1.46 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index te](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 112, Citation Count: 1

Remotely sensed satellite images are an important source of geographical data commonly used various types of classification algorithms. For example, these algorithms are commonly used to earth land cover, analyze crop conditions, ...

Keyw ords: classification, content protection, information hiding, satellite imagery, watermarkir

## 19 Time series compressibility and privacy

Spiros Papadimitriou, Feifei Li, George Kollios, Philip S. Yu

September 2007 VLDB '07: Proceedings of the 33rd international conference on Very large data bas

Publisher: VLDB Endowment

Full text available: pdf(514.23 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 49, Citation Count: 0

In this paper we study the trade-offs between time series compressibility and partial informatior their fundamental implications on how we should introduce uncertainty about individual values k

perturbing them. More specifically, if the perturbation ...

20 [Zero-knowledge watermark detector robust to sensitivity attacks](#)



Juan Ramón Troncoso-Pastoriza, Fernando Pérez-González

September 2006 MM&Sec '06: Proceedings of the 8th workshop on Multimedia and security

Publisher: ACM

Full text available: pdf(300.41 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 91, Citation Count: 1

Current zero-knowledge watermark detectors are based on a linear correlation between the asset and a given secret sequence. This detection function is susceptible of being attacked by sensitivity attacks, for which zero-knowledge does not provide ...

Keywords: generalized gaussian detector, sensitivity attacks, watermark detection, zero-knowledge

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